	Jul 1, '07	Jul 8, '07	Jul 15, '07	Jul 22, '07	Jul 29, '07	Aug 5, '07
Amber Boehnlein		20 hrs	18 hrs	6 hrs		
Resolve how to add production paths in future: D0 Approval						
Operations Policies doc: Approve - CD, D0						
Baseline Plan: Approval by ABS, CD						
Project Close-out Report Approval: ABS, CD						
Rob Kennedy	23.2 hrs	39.88 hrs	65.48 hrs	25.2 hrs	25.2 hrs	
High-level Architecture Document: Approval - VW						
Operations Policies doc: Approve - CD, D0						
Develop WBS for implementing this capability						
Project Definition Document: Draft w/o WBS/Schedule						
Project Execution Plan: Draft w/o WBS/Schedule						
Baseline Plan: Integrate components, feed-back, update draft v1.1						
Baseline Plan: Approval by ABS, CD						
Execution Phase (Level of Effort = 15%)						
Project Close-out Meeting						
Project Close-out Report						
Project Close-out Report Approval: ABS, CD						
Archive project artifacts						
Gabriele Garzoglio		32 hrs	18 hrs	2 hrs	32 hrs	
Testing responsibilities, procedures proposal						
Organize activities to prepare for LCG fwd node downtime						
Open Science Enclave baseline security plan - implications on SamGrid, CAB						
Use ResS (more flexible than use of roles)						
Establish service level for optimal performance and implications on system config						
Evaluate request, determine best course of action						
Andrew Baranovski	16 hrs	20 hrs	40 hrs			
Tool to setup worker node environment						
Simplify maintenance of automatic clean-up scripts for durable locations						
Make output sandbox space management more robust						
Provide tools (to MD) for accessing old logfiles						
Develop converter between SamGrid config and next-gen cron						
Generate NGOP agents from set of monitoring scripts and config						
Store duplicate configuration of fwd node						
Accept existing configuration of fwd node						
Dispatch list of monitoring agents periodically, collect statuses						
Create distributable UPD package						
Develop generic scripts for Gridftp and Fcp monitoring						
Forwarding Node: Gridftp, Fcp, Jim_advertise, XML db, Sandbox, optional scheduling component						
Data Nodes: Stager, Durable location, caches, Gridftp, Fcp						
Assess automation of alarming systems						
Integration deployment and testing						
Documentation						
Develop automatic job management framework						

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Automatic analysis of test results						
Integrate with alarming system						
Parag Mhashilkar	32 hrs	42 hrs	38 hrs	40 hrs	68 hrs	
Store output from any stage: Describe suitable test of feature						
D0repro tools adaptation: Evaluate impact on SamGrid and/or D0runjob						
D0repro tools adaptation: Use generic runjob interfaces in Samgrid for data processing App						
Generalization of Job Types according to I/O Characteristics						
Resolve how to add production paths in future: Document						
Start Prod at Stage 2: SamGrid notification=all bug fix						
New VDT: software adaptation and deployment						
Developers install and test candidate fwd node (by Fri Oct 26)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Developers install and test samgrid-like node (by Fri Nov 2)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Define standard durable location machine configuration						
Developers install and test durable location node (by Fri Nov 23)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Auto-clean up SamGrid job queue (samgrid.fnal.gov)						
Auto-clean up OSG job queue (fwd nodes)						
Resolve: Globus gatekeeper does not properly cleanup gass caches						
Periodically clean up gram log files at fwd nodes and exec sites						
Clean up sandboxes and jim_tmp areas at fwd node						
Clean up non-rotated log files (eg. Tomcat)						
Automation of all gridmap file management (including condor_schedd)						
Add the deployment of scripts to installation instructions						
Determine goal level, requirements						
Determine existing querying performance						
Evaluate condor_quill, if determined to be necessary						
Improve algorithm for selection of OSG resources						
Investigate alternative (to UPD) deployment methods						
Simplify installation process with new method or with a UPD umbrella package						
Auto Mgmt XML DB: Procedure to remove old XML DB entries. recover FS space						
Auto Mgmt XML DB: Automate this or make part of maint. downtime procedures						
Auto Mgmt XML DB: Large DB performance degradation						
Auto Mgmt XML DB: Infrequent index corruption						
Fix Immortal Jobs: SamGrid development/integration						
Job State diagram with most common error state causes						
Augment Job States to be more meaningful to large customer						
Establish service level for optimal performance and implications on system config						
Adam Lyon	8 hrs	42 hrs	12 hrs		16 hrs	

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Operations Policies doc: Revised version	, ,	,	,	,		
Operations Policies doc: Final version						
Assess automation of maintenance operations						
Develop generic NGOP rules: alarm severity, paging/email notifications						
Mike Diesburg	24 hrs	36 hrs				
Fix d0srv065 storage issues						
Run D0 Primary Prod to verify storage fix						
Scale-up D0 Primary Prod to 200 nodes						
Open Science Enclave baseline security plan - implications on SamGrid, CAB						
Allow access by MD to dir/files on CAB owned by dzeropro (we suggest getting root access)						
JIM production release consistent with d0runjob v7-7-3 and higher						
Define conditions of challenge						
Service Challenge execution						
Establish service level for optimal performance and implications on system config						
Randolph Herber						
Understand SAM-Grid representation requirements: Ops part						
Automated administration of NGOP schema and config						
Joel Snow						
Store output from any stage: Production-level test						
D0repro tools adaptation: Production-level test						
Agreement on Component and Integration testing						
Evaluate and sign-off on test facilities and procedures						
Start Prod at Stage 2: Production-level re-test						
New VDT: Production-level test						
Fix Immortal Jobs: Production-level test						
Establish service level for optimal performance and implications on system config						
MC Request Submitter						
Store output from any stage: Create/submit requests to test feature						
Fix Immortal Jobs: Create/submit requests to test feature						
Peter Love	8 hrs					
D0repro tools adaptation: Evaluate impact on SamGrid and/or D0runjob						
D0repro tools adaptation: Adjust D0runjob to use request system						
Agreement on Component and Integration testing						
D0runjob sets up its own environment						
Evaluate and sign-off on test facilities and procedures						
Transfer output sandbox selection logic to Runjob						
Daniel Wicke					4 hrs	
D0repro tools adaptation: Second 50% implementation						
Agreement on Component and Integration testing						
Evaluate and sign-off on test facilities and procedures						
FEF Administrators						1
Admins procure HW parts for all fwd nodes						
Admins configure candidate fwd node (by Oct 22)						

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Grid Production System info on diagram: node roles, software, maintainers	External Resource						
	Grid Production System info on diagram: node roles, software, maintainers						
	CAB web monitoring changes requested by MD,JS						

	Jul 1, '07	Jul 8, '07	Jul 15, '07	Jul 22, '07	Jul 29, '07	Aug 5, '07
Improve job monitoring, include trend plots						

	Aug 5, '07	Aug 12, '07	Aug 19, '07	Aug 26, '07	Sep 2, '07	Sep 9, '07
Amber Boehnlein		4 hrs		8 hrs		
Resolve how to add production paths in future: D0 Approval						
Operations Policies doc: Approve - CD, D0						
Baseline Plan: Approval by ABS, CD						
Project Close-out Report Approval: ABS, CD						
Rob Kennedy		42 hrs	42 hrs	50 hrs	39.6 hrs	
High-level Architecture Document: Approval - VW						
Operations Policies doc: Approve - CD, D0						
Develop WBS for implementing this capability						
Project Definition Document: Draft w/o WBS/Schedule						
Project Execution Plan: Draft w/o WBS/Schedule						
Baseline Plan: Integrate components, feed-back, update draft v1.1						
Baseline Plan: Approval by ABS, CD						
Execution Phase (Level of Effort = 15%)						
Project Close-out Meeting						
Project Close-out Report						
Project Close-out Report Approval: ABS, CD						
Archive project artifacts						
Gabriele Garzoglio	56 hrs	87.2 hrs	48.6 hrs	8 hrs	52 hrs	
Testing responsibilities, procedures proposal						
Organize activities to prepare for LCG fwd node downtime						
Open Science Enclave baseline security plan - implications on SamGrid, CAB						
Use ResS (more flexible than use of roles)						
Establish service level for optimal performance and implications on system config						
Evaluate request, determine best course of action						
Andrew Baranovski		24 hrs	24 hrs		32 hrs	
Tool to setup worker node environment						
Simplify maintenance of automatic clean-up scripts for durable locations						
Make output sandbox space management more robust						
Provide tools (to MD) for accessing old logfiles						
Develop converter between SamGrid config and next-gen cron						
Generate NGOP agents from set of monitoring scripts and config						
Store duplicate configuration of fwd node						
Accept existing configuration of fwd node						
Dispatch list of monitoring agents periodically, collect statuses						
Create distributable UPD package						
Develop generic scripts for Gridftp and Fcp monitoring						
Forwarding Node: Gridftp, Fcp, Jim_advertise, XML db, Sandbox, optional scheduling component						
Data Nodes: Stager, Durable location, caches, Gridftp, Fcp						
Assess automation of alarming systems						
Integration deployment and testing						
Documentation						
Develop automatic job management framework						

	Aug 5, '07	Aug 12, '07	Aug 19, '07	Aug 26, '07	Sep 2, '07	Sep 9, '07
Automatic analysis of test results						
Integrate with alarming system						
Parag Mhashilkar	60 hrs	8 hrs				
Store output from any stage: Describe suitable test of feature						
D0repro tools adaptation: Evaluate impact on SamGrid and/or D0runjob						
D0repro tools adaptation: Use generic runjob interfaces in Samgrid for data processing App						
Generalization of Job Types according to I/O Characteristics						
Resolve how to add production paths in future: Document						
Start Prod at Stage 2: SamGrid notification=all bug fix						
New VDT: software adaptation and deployment						
Developers install and test candidate fwd node (by Fri Oct 26)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Developers install and test samgrid-like node (by Fri Nov 2)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Define standard durable location machine configuration						
Developers install and test durable location node (by Fri Nov 23)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Auto-clean up SamGrid job queue (samgrid.fnal.gov)						
Auto-clean up OSG job queue (fwd nodes)						
Resolve: Globus gatekeeper does not properly cleanup gass caches						
Periodically clean up gram log files at fwd nodes and exec sites						
Clean up sandboxes and jim_tmp areas at fwd node						
Clean up non-rotated log files (eg. Tomcat)						
Automation of all gridmap file management (including condor_schedd)						
Add the deployment of scripts to installation instructions						
Determine goal level, requirements						
Determine existing querying performance						
Evaluate condor_quill, if determined to be necessary						
Improve algorithm for selection of OSG resources						
Investigate alternative (to UPD) deployment methods						
Simplify installation process with new method or with a UPD umbrella package						
Auto Mgmt XML DB: Procedure to remove old XML DB entries. recover FS space						
Auto Mgmt XML DB: Automate this or make part of maint. downtime procedures						
Auto Mgmt XML DB: Large DB performance degradation						
Auto Mgmt XML DB: Infrequent index corruption						
Fix Immortal Jobs: SamGrid development/integration						
Job State diagram with most common error state causes						
Augment Job States to be more meaningful to large customer						
Establish service level for optimal performance and implications on system config						
Adam Lyon	16 hrs	60 hrs	48 hrs	8 hrs	34 hrs	

	Aug 5, '07	Aug 12, '07	Aug 19, '07	Aug 26, '07	Sep 2, '07	Sep 9, '07
Operations Policies doc: Revised version						
Operations Policies doc: Final version						
Assess automation of maintenance operations						
Develop generic NGOP rules: alarm severity, paging/email notifications						
Mike Diesburg						
Fix d0srv065 storage issues						
Run D0 Primary Prod to verify storage fix						
Scale-up D0 Primary Prod to 200 nodes						
Open Science Enclave baseline security plan - implications on SamGrid, CAB						
Allow access by MD to dir/files on CAB owned by dzeropro (we suggest getting root access)						
JIM production release consistent with d0runjob v7-7-3 and higher						
Define conditions of challenge						
Service Challenge execution						
Establish service level for optimal performance and implications on system config						
Randolph Herber						
Understand SAM-Grid representation requirements: Ops part						
Automated administration of NGOP schema and config						
Joel Snow	16 hrs	40 hrs	8 hrs			
Store output from any stage: Production-level test						
D0repro tools adaptation: Production-level test						
Agreement on Component and Integration testing						
Evaluate and sign-off on test facilities and procedures						
Start Prod at Stage 2: Production-level re-test						
New VDT: Production-level test						
Fix Immortal Jobs: Production-level test						
Establish service level for optimal performance and implications on system config						
MC Request Submitter						
Store output from any stage: Create/submit requests to test feature						
Fix Immortal Jobs: Create/submit requests to test feature						
Peter Love						
D0repro tools adaptation: Evaluate impact on SamGrid and/or D0runjob						
D0repro tools adaptation: Adjust D0runjob to use request system						
Agreement on Component and Integration testing						
D0runjob sets up its own environment						
Evaluate and sign-off on test facilities and procedures						
Transfer output sandbox selection logic to Runjob						
Daniel Wicke	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	
D0repro tools adaptation: Second 50% implementation						
Agreement on Component and Integration testing						
Evaluate and sign-off on test facilities and procedures						
FEF Administrators	1			+		
Admins procure HW parts for all fwd nodes						

	Aug 5, '07	Aug 12, '07	Aug 19, '07	Aug 26, '07	Sep 2, '07	Sep 9, '07
Admins and REX ops configure production fwd node						
Admins and REX ops configure production fwd node						
Admins and REX ops configure production fwd node						
Admins procure HW parts for samgrid-like node (job queuing, broker, web server)						
Admins configure test instance of samgrid-like node						
Admins configure production samgrid-like node						
Admins procure and configure durable location test node						
Admins configure test instance of durable location node (by Fri Nov 9)						
Open Science Enclave baseline security plan - implications on SamGrid, CAB						
REX Operators						
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)						
Topical Operations Training and Docs as requested by REX ops (Level of Effort)						
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)						
Topical Operations Training and Docs as requested by REX ops (Level of Effort)						
REX ops re-installs on candidate machine						
Switch candidate machine and d0srv047 (fwd + station) (Nov 6)						
REX ops drains and take production fwd node offline						
REX ops installs software on production fwd node (d0srv66)						
Put fwd node back into system d0srv66 (Nov 13)						
REX ops drains and take production fwd node offline						
REX ops installs software on production fwd node (d0srv15)						
Switch candidate machine and d0srv15 (1 fwd node downtime) (Nov 15)						
REX ops installs software on test fwd node (d0srv47)						
Reinstall LCG fwd node (Dec 4 downtime)						
REX ops installs software on production samgrid-like node						
Replace samgrid.fnal.gov (Dec 4 downtime, prefer Nov 6 downtime)						
REX ops re-installs on test machine						
Stop tmb upload to d0srv063; REX ops reinstalls durable location (Nov 26-27)						
Stop tmb upload to d0srv065; REX ops reinstalls durable location (Nov 28-29)						
Develop automatic job management framework						
Automatic analysis of test results						
Integrate with alarming system						
SamGrid Developers						
Agreement on Component and Integration testing						
Evaluate and sign-off on test facilities and procedures						
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)						
Topical Operations Training and Docs as requested by REX ops (Level of Effort)						
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)						
Topical Operations Training and Docs as requested by REX ops (Level of Effort)						
External Resource						
Grid Production System workflow/dataflow diagram						
Grid Production System info on diagram: node roles, software, maintainers						
CAB web monitoring changes requested by MD,JS						

	Aug 5, '07	Aug 12, '07	Aug 19, '07	Aug 26, '07	Sep 2, '07	Sep 9, '07
Improve job monitoring, include trend plots						

	Sep 9, '07	Sep 16, '07	Sep 23, '07	Sep 30, '07	Oct 7, '07	Oct 14, '0
Amber Boehnlein				8 hrs		
Resolve how to add production paths in future: D0 Approval						
Operations Policies doc: Approve - CD, D0						
Baseline Plan: Approval by ABS, CD						
Project Close-out Report Approval: ABS, CD						
Rob Kennedy	70 hrs	66.8 hrs	46 hrs	54.8 hrs	56.83 hrs	
High-level Architecture Document: Approval - VW					8 hrs	
Operations Policies doc: Approve - CD, D0						
Develop WBS for implementing this capability		0.8 hrs	4 hrs	4 hrs	4 hrs	
Project Definition Document: Draft w/o WBS/Schedule					16 hrs	
Project Execution Plan: Draft w/o WBS/Schedule					16 hrs	
Baseline Plan: Integrate components, feed-back, update draft v1.1						
Baseline Plan: Approval by ABS, CD						
Execution Phase (Level of Effort = 15%)					4.8 hrs	
Project Close-out Meeting						
Project Close-out Report						
Project Close-out Report Approval: ABS, CD						
Archive project artifacts						
Gabriele Garzoglio	85.63 hrs	24 hrs	26 hrs	41 hrs	20 hrs	
Testing responsibilities, procedures proposal				20 hrs	20 hrs	
Organize activities to prepare for LCG fwd node downtime						
Open Science Enclave baseline security plan - implications on SamGrid, CAB						
Use ResS (more flexible than use of roles)						
Establish service level for optimal performance and implications on system config						
Evaluate request, determine best course of action						
Andrew Baranovski	64 hrs	40 hrs	50 hrs	40 hrs	56 hrs	
Tool to setup worker node environment						
Simplify maintenance of automatic clean-up scripts for durable locations						
Make output sandbox space management more robust					16 hrs	
Provide tools (to MD) for accessing old logfiles						
Develop converter between SamGrid config and next-gen cron					40 hrs	
Generate NGOP agents from set of monitoring scripts and config						
Store duplicate configuration of fwd node						
Accept existing configuration of fwd node						
Dispatch list of monitoring agents periodically, collect statuses						
Create distributable UPD package						
Develop generic scripts for Gridftp and Fcp monitoring						
Forwarding Node: Gridftp, Fcp, Jim_advertise, XML db, Sandbox, optional scheduling component						
Data Nodes: Stager, Durable location, caches, Gridftp, Fcp						
Assess automation of alarming systems						
Integration deployment and testing						
Documentation						
Develop automatic job management framework						

	Sep 9, '07	Sep 16, '07	Sep 23, '07	Sep 30, '07	Oct 7, '07	Oct 14, '0
Automatic analysis of test results						
Integrate with alarming system						
Parag Mhashilkar		64 hrs	44 hrs	37 hrs	44 hrs	
Store output from any stage: Describe suitable test of feature						
D0repro tools adaptation: Evaluate impact on SamGrid and/or D0runjob					8 hrs	
D0repro tools adaptation: Use generic runjob interfaces in Samgrid for data processing App						
Generalization of Job Types according to I/O Characteristics						
Resolve how to add production paths in future: Document						
Start Prod at Stage 2: SamGrid notification=all bug fix						
New VDT: software adaptation and deployment		8 hrs	20 hrs	20 hrs	20 hrs	
Developers install and test candidate fwd node (by Fri Oct 26)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Developers install and test samgrid-like node (by Fri Nov 2)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Define standard durable location machine configuration					16 hrs	
Developers install and test durable location node (by Fri Nov 23)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Auto-clean up SamGrid job queue (samgrid.fnal.gov)						
Auto-clean up OSG job queue (fwd nodes)						
Resolve: Globus gatekeeper does not properly cleanup gass caches						
Periodically clean up gram log files at fwd nodes and exec sites						
Clean up sandboxes and jim_tmp areas at fwd node						
Clean up non-rotated log files (eg. Tomcat)						
Automation of all gridmap file management (including condor_schedd)						
Add the deployment of scripts to installation instructions						
Determine goal level, requirements						
Determine existing querying performance						
Evaluate condor_quill, if determined to be necessary						
Improve algorithm for selection of OSG resources						
Investigate alternative (to UPD) deployment methods						
Simplify installation process with new method or with a UPD umbrella package						
Auto Mgmt XML DB: Procedure to remove old XML DB entries. recover FS space						
Auto Mgmt XML DB: Automate this or make part of maint. downtime procedures						
Auto Mgmt XML DB: Large DB performance degradation						
Auto Mgmt XML DB: Infrequent index corruption						
Fix Immortal Jobs: SamGrid development/integration						
Job State diagram with most common error state causes						
Augment Job States to be more meaningful to large customer						
Establish service level for optimal performance and implications on system config						
Adam Lyon	40 hrs		40 hrs	40 hrs	80 hrs	

Operations Policies doc: Final version Assess automation of maintenance operations Develop generic NGOP rules: alarm severity, paging/email notifications Mike Diesburg Fix d0sv065 storage issues Run D0 Primary Prod to verify storage fix Scale-up D0 Primary Prod to 200 nodes Open Science Enclave baseline security plan - implications on SamGrid, CAB Allow access by M10 to dirfilles on CAB owned by dzeropro (we suggest getting root access) JIM production release consistent with d0runjob v7-7-3 and higher Define conditions of challenge Service Challenge execution Establish service level for optimal performance and implications on system config Randolph Herber Understand SAM-Grid representation requirements: Ops part Automated administration of NGOP schema and config Joel Snow Store output from any stage: Production-level test D0repro tools adaptation: Production-level test Agreement on Component and Integration testing Evaluate and sign-off on test facilities and procedures Start Prod at Stage 2: Production-level re-test New VDT: Production-level test Fix Immortal Jobs: Production-level retest Starblish service level for optimal performance and implications on system config MC Request Submitter Store output from any stage: Create/submit requests to test feature Fix Immortal Jobs: Create/submit requests to test feature Peter Love D0 repro tools adaptation: Adjust D0 runjob to use request system Agreement on Component and Integration testing D0 runjob sets up its von environment	Oct 7, '07	Oct 14, '0
Assess automation of maintenance operations Develop generic NGOP rules: alarm severity, paging/email notifications Mike Diesburg Fix d0srv065 storage issues Run D0 Primary Prod to verify storage fix Scale-up D0 Primary Prod to 200 nodes Open Science Enclave baseline security plan - implications on SamGrid, CAB Allow access by M10 to dirifflies on CAB owned by dzeropro (we suggest getting root access) JIM production release consistent with d0runjob v7-7-3 and higher Define conditions of challenge Service Challenge execution Establish service level for optimal performance and implications on system config Randolph Herber Understand SAM-Grid representation requirements: Ops part Automated administration of NGOP schema and config Joel Snow Store output from any stage: Production-level test Oprepro tools adaptation: Production-level test Agreement on Component and Integration testing Evaluate and sign-off on test facilities and procedures Start Prod at Stage 2: Production-level rest New VDT: Production-level test Fix Immortal Jobs: Production-level rest Fix Immortal Jobs: Production-level test Store output from any stage: Create/submit requests to test feature Fix Immortal Jobs: Create/submit requests to test feature Direpto tools adaptation: Evaluate impact on SamGrid and/or D0runjob D0repto tools adaptation: Adjust D0runjob to use request system Agreement on Component and Integration testing	40 hrs	
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Agreement on Component and Integration testing		
Evaluate and sign-off on test facilities and procedures		
Transfer output sandbox selection logic to Runjob		
Daniel Wicke 4 hrs 4 hrs 4 hrs	4 hrs	
D0repro tools adaptation: Second 50% implementation 4 hrs 4 hrs	4 hrs	
Agreement on Component and Integration testing		
Evaluate and sign-off on test facilities and procedures		
FEF Administrators 24 hrs 72 hrs 80 hrs	80 hrs	
Admins procure HW parts for all fwd nodes 24 hrs 40 hrs 40 hrs	40 hrs	
Admins configure candidate fwd node (by Oct 22)	70 1113	

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Grid Production System workflow/dataflow diagram Grid Production System info on diagram: node roles, software, maintainers	Topical Operations Training and Docs as requested by REX ops (Level of Effort)						
Grid Production System info on diagram: node roles, software, maintainers	External Resource					32 hrs	
	Grid Production System workflow/dataflow diagram						
	Grid Production System info on diagram: node roles, software, maintainers						
						32 hrs	

_		Sep 9, '07	Sep 16, '07	Sep 23, '07	Sep 30, '07	Oct 7, '07	Oct 14, '0
	Improve job monitoring, include trend plots						

	Oct 14, '07	Oct 21, '07	Oct 28, '07	Nov 4, '07	Nov 11, '07	Nov 18, '0
Amber Boehnlein	8 hrs	4 hrs		16 hrs		
Resolve how to add production paths in future: D0 Approval						
Operations Policies doc: Approve - CD, D0				16 hrs		
Baseline Plan: Approval by ABS, CD	8 hrs	4 hrs				
Project Close-out Report Approval: ABS, CD						
Rob Kennedy	50 hrs	18 hrs	9.2 hrs	22 hrs	6 hrs	
High-level Architecture Document: Approval - VW						
Operations Policies doc: Approve - CD, D0				16 hrs		
Develop WBS for implementing this capability	4 hrs	4 hrs	3.2 hrs			
Project Definition Document: Draft w/o WBS/Schedule	8 hrs					
Project Execution Plan: Draft w/o WBS/Schedule	8 hrs					
Baseline Plan: Integrate components, feed-back, update draft v1.1	8 hrs					
Baseline Plan: Approval by ABS, CD	16 hrs	8 hrs				
Execution Phase (Level of Effort = 15%)	6 hrs	6 hrs	6 hrs	6 hrs	6 hrs	
Project Close-out Meeting						
Project Close-out Report						
Project Close-out Report Approval: ABS, CD						
Archive project artifacts						
Gabriele Garzoglio	20 hrs	30 hrs	38 hrs	50 hrs	40 hrs	
Testing responsibilities, procedures proposal						
Organize activities to prepare for LCG fwd node downtime	20 hrs	20 hrs	20 hrs			
Open Science Enclave baseline security plan - implications on SamGrid, CAB		10 hrs	10 hrs	10 hrs		
Use ResS (more flexible than use of roles)			8 hrs	20 hrs	20 hrs	
Establish service level for optimal performance and implications on system config						
Evaluate request, determine best course of action				20 hrs	20 hrs	
Andrew Baranovski	60 hrs	56 hrs	56 hrs	48 hrs	40 hrs	
Tool to setup worker node environment		12 hrs	20 hrs	8 hrs		
Simplify maintenance of automatic clean-up scripts for durable locations						
Make output sandbox space management more robust	4 hrs					
Provide tools (to MD) for accessing old logfiles	16 hrs	4 hrs				
Develop converter between SamGrid config and next-gen cron	40 hrs					
Generate NGOP agents from set of monitoring scripts and config		8 hrs				
Store duplicate configuration of fwd node		8 hrs				
Accept existing configuration of fwd node		8 hrs				
Dispatch list of monitoring agents periodically, collect statuses		8 hrs				
Create distributable UPD package		8 hrs				
Develop generic scripts for Gridftp and Fcp monitoring			8 hrs			
Forwarding Node: Gridftp, Fcp, Jim_advertise, XML db, Sandbox, optional scheduling component			16 hrs			
Data Nodes: Stager, Durable location, caches, Gridftp, Fcp			12 hrs			
Assess automation of alarming systems				16 hrs		
Integration deployment and testing				24 hrs	16 hrs	
Documentation					24 hrs	
Develop automatic job management framework						

	Oct 14, '07	Oct 21, '07	Oct 28, '07	Nov 4, '07	Nov 11, '07	Nov 18, '0
Automatic analysis of test results						
Integrate with alarming system						
Parag Mhashilkar	26 hrs	58 hrs	70 hrs	62 hrs	50 hrs	
Store output from any stage: Describe suitable test of feature						
D0repro tools adaptation: Evaluate impact on SamGrid and/or D0runjob	10 hrs	2 hrs				
D0repro tools adaptation: Use generic runjob interfaces in Samgrid for data processing App		8 hrs	10 hrs	10 hrs	10 hrs	
Generalization of Job Types according to I/O Characteristics						
Resolve how to add production paths in future: Document						
Start Prod at Stage 2: SamGrid notification=all bug fix						
New VDT: software adaptation and deployment	16 hrs					
Developers install and test candidate fwd node (by Fri Oct 26)		32 hrs				
Adjust current installation instructions			16 hrs			
Adjust current software to use standard location as default			16 hrs			
Developers install and test samgrid-like node (by Fri Nov 2)			8 hrs	16 hrs		
Adjust current installation instructions				16 hrs		
Adjust current software to use standard location as default				8 hrs	8 hrs	
Define standard durable location machine configuration						
Developers install and test durable location node (by Fri Nov 23)					24 hrs	
Adjust current installation instructions					8 hrs	
Adjust current software to use standard location as default						
Auto-clean up SamGrid job queue (samgrid.fnal.gov)		16 hrs				
Auto-clean up OSG job queue (fwd nodes)			20 hrs	12 hrs		
Resolve: Globus gatekeeper does not properly cleanup gass caches						
Periodically clean up gram log files at fwd nodes and exec sites						
Clean up sandboxes and jim_tmp areas at fwd node						
Clean up non-rotated log files (eg. Tomcat)						
Automation of all gridmap file management (including condor_schedd)						
Add the deployment of scripts to installation instructions						
Determine goal level, requirements						
Determine existing querying performance						
Evaluate condor_quill, if determined to be necessary						
Improve algorithm for selection of OSG resources						
Investigate alternative (to UPD) deployment methods						
Simplify installation process with new method or with a UPD umbrella package						
Auto Mgmt XML DB: Procedure to remove old XML DB entries. recover FS space						
Auto Mgmt XML DB: Automate this or make part of maint. downtime procedures						
Auto Mgmt XML DB: Large DB performance degradation						
Auto Mgmt XML DB: Infrequent index corruption						
Fix Immortal Jobs: SamGrid development/integration						
Job State diagram with most common error state causes						
Augment Job States to be more meaningful to large customer						
Establish service level for optimal performance and implications on system config						
Adam Lyon	16 hrs		24 hrs	16 hrs		

	Oct 14, '07	Oct 21, '07	Oct 28, '07	Nov 4, '07	Nov 11, '07	Nov 18, '0
Operations Policies doc: Revised version	16 hrs					
Operations Policies doc: Final version			24 hrs	16 hrs		
Assess automation of maintenance operations						
Develop generic NGOP rules: alarm severity, paging/email notifications						
Mike Diesburg	40 hrs	10 hrs	10 hrs	10 hrs	8 hrs	
Fix d0srv065 storage issues						
Run D0 Primary Prod to verify storage fix						
Scale-up D0 Primary Prod to 200 nodes	40 hrs					
Open Science Enclave baseline security plan - implications on SamGrid, CAB		10 hrs	10 hrs	10 hrs		
Allow access by MD to dir/files on CAB owned by dzeropro (we suggest getting root access)					8 hrs	
JIM production release consistent with d0runjob v7-7-3 and higher						
Define conditions of challenge						
Service Challenge execution						
Establish service level for optimal performance and implications on system config						
Randolph Herber	40 hrs	40 hrs	40 hrs			
Understand SAM-Grid representation requirements: Ops part						
Automated administration of NGOP schema and config	40 hrs	40 hrs	40 hrs			
Joel Snow	48 hrs	24 hrs			24 hrs	
Store output from any stage: Production-level test						
D0repro tools adaptation: Production-level test						
Agreement on Component and Integration testing	40 hrs	16 hrs				
Evaluate and sign-off on test facilities and procedures					24 hrs	
Start Prod at Stage 2: Production-level re-test						
New VDT: Production-level test	8 hrs	8 hrs				
Fix Immortal Jobs: Production-level test						
Establish service level for optimal performance and implications on system config						
MC Request Submitter						
Store output from any stage: Create/submit requests to test feature						
Fix Immortal Jobs: Create/submit requests to test feature						
Peter Love	58 hrs	90 hrs	72 hrs	64 hrs	72.67 hrs	
D0repro tools adaptation: Evaluate impact on SamGrid and/or D0runjob	10 hrs	2 hrs	721110	0110	72.07 1.10	
D0repro tools adaptation: Adjust D0runjob to use request system		32 hrs	40 hrs	40 hrs	40 hrs	
Agreement on Component and Integration testing	40 hrs	16 hrs				
D0runjob sets up its own environment				24 hrs	16 hrs	
Evaluate and sign-off on test facilities and procedures				211110	16.67 hrs	
Transfer output sandbox selection logic to Runjob	8 hrs	40 hrs	32 hrs			
Daniel Wicke	44 hrs	20 hrs	4 hrs	4 hrs	28 hrs	
D0repro tools adaptation: Second 50% implementation	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	
Agreement on Component and Integration testing	40 hrs	16 hrs	71113	71113	71113	
Evaluate and sign-off on test facilities and procedures	401113	101113			24 hrs	
FEF Administrators	120 hrs	98 hrs	58 hrs	66 hrs	56 hrs	
Admins procure HW parts for all fwd nodes	8 hrs	30 1115	30 1118	00 1115	50 1118	
·		Q hro				
Admins configure candidate fwd node (by Oct 22)	32 hrs	8 hrs				

	Oct 14, '07	Oct 21, '07	Oct 28, '07	Nov 4, '07	Nov 11, '07	Nov 18, '0
Admins and REX ops configure production fwd node				16 hrs		
Admins and REX ops configure production fwd node					16 hrs	
Admins and REX ops configure production fwd node						
Admins procure HW parts for samgrid-like node (job queuing, broker, web server)	40 hrs	8 hrs				
Admins configure test instance of samgrid-like node		32 hrs	8 hrs			
Admins configure production samgrid-like node					32 hrs	
Admins procure and configure durable location test node	40 hrs	40 hrs	40 hrs	8 hrs		
Admins configure test instance of durable location node (by Fri Nov 9)				32 hrs	8 hrs	
Open Science Enclave baseline security plan - implications on SamGrid, CAB		10 hrs	10 hrs	10 hrs		
REX Operators	24 hrs	40 hrs	48 hrs	48 hrs	32 hrs	
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)	12 hrs	20 hrs	20 hrs	8 hrs		
Topical Operations Training and Docs as requested by REX ops (Level of Effort)	12 hrs	20 hrs	20 hrs	8 hrs		
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)						
Topical Operations Training and Docs as requested by REX ops (Level of Effort)						
REX ops re-installs on candidate machine			8 hrs	8 hrs		
Switch candidate machine and d0srv047 (fwd + station) (Nov 6)				8 hrs		
REX ops drains and take production fwd node offline				8 hrs		
REX ops installs software on production fwd node (d0srv66)					8 hrs	
Put fwd node back into system d0srv66 (Nov 13)					8 hrs	
REX ops drains and take production fwd node offline					8 hrs	
REX ops installs software on production fwd node (d0srv15)						
Switch candidate machine and d0srv15 (1 fwd node downtime) (Nov 15)						
REX ops installs software on test fwd node (d0srv47)				8 hrs	8 hrs	
Reinstall LCG fwd node (Dec 4 downtime)						
REX ops installs software on production samgrid-like node						
Replace samgrid.fnal.gov (Dec 4 downtime, prefer Nov 6 downtime)						
REX ops re-installs on test machine						
Stop tmb upload to d0srv063; REX ops reinstalls durable location (Nov 26-27)						
Stop tmb upload to d0srv065; REX ops reinstalls durable location (Nov 28-29)						
Develop automatic job management framework						
Automatic analysis of test results						
Integrate with alarming system						
SamGrid Developers	64 hrs	56 hrs	40 hrs	16 hrs	16.67 hrs	
Agreement on Component and Integration testing	40 hrs	16 hrs				
Evaluate and sign-off on test facilities and procedures					16.67 hrs	
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)	12 hrs	20 hrs	20 hrs	8 hrs		
Topical Operations Training and Docs as requested by REX ops (Level of Effort)	12 hrs	20 hrs	20 hrs	8 hrs		
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)						
Topical Operations Training and Docs as requested by REX ops (Level of Effort)						
External Resource	40 hrs	72 hrs	80 hrs	16 hrs		
Grid Production System workflow/dataflow diagram		32 hrs	8 hrs			
Grid Production System info on diagram: node roles, software, maintainers			32 hrs	8 hrs		
CAB web monitoring changes requested by MD,JS	40 hrs	8 hrs	1		1	1

_		Oct 14, '07	Oct 21, '07	Oct 28, '07	Nov 4, '07	Nov 11, '07	Nov 18, '0	
	Improve job monitoring, include trend plots		32 hrs	40 hrs	8 hrs			

	Nov 18, '07	Nov 25, '07	Dec 2, '07	Dec 9, '07	Dec 16, '07	Dec 23, '0
Amber Boehnlein				40 hrs		
Resolve how to add production paths in future: D0 Approval				40 hrs		
Operations Policies doc: Approve - CD, D0						
Baseline Plan: Approval by ABS, CD						
Project Close-out Report Approval: ABS, CD						
Rob Kennedy	3.6 hrs	6 hrs	6 hrs	6 hrs	3.6 hrs	
High-level Architecture Document: Approval - VW						
Operations Policies doc: Approve - CD, D0						
Develop WBS for implementing this capability						
Project Definition Document: Draft w/o WBS/Schedule						
Project Execution Plan: Draft w/o WBS/Schedule						
Baseline Plan: Integrate components, feed-back, update draft v1.1						
Baseline Plan: Approval by ABS, CD						
Execution Phase (Level of Effort = 15%)	3.6 hrs	6 hrs	6 hrs	6 hrs	3.6 hrs	
Project Close-out Meeting						
Project Close-out Report						
Project Close-out Report Approval: ABS, CD						
Archive project artifacts						
Gabriele Garzoglio	12 hrs					
Testing responsibilities, procedures proposal						
Organize activities to prepare for LCG fwd node downtime						
Open Science Enclave baseline security plan - implications on SamGrid, CAB						
Use ResS (more flexible than use of roles)	12 hrs					
Establish service level for optimal performance and implications on system config						
Evaluate request, determine best course of action						
Andrew Baranovski	24 hrs	32 hrs	40 hrs	40 hrs	40 hrs	
Tool to setup worker node environment						
Simplify maintenance of automatic clean-up scripts for durable locations			32 hrs			
Make output sandbox space management more robust						
Provide tools (to MD) for accessing old logfiles						
Develop converter between SamGrid config and next-gen cron						
Generate NGOP agents from set of monitoring scripts and config						
Store duplicate configuration of fwd node						
Accept existing configuration of fwd node						
Dispatch list of monitoring agents periodically, collect statuses						
Create distributable UPD package						
Develop generic scripts for Gridftp and Fcp monitoring						
Forwarding Node: Gridftp, Fcp, Jim_advertise, XML db, Sandbox, optional scheduling component						
Data Nodes: Stager, Durable location, caches, Gridftp, Fcp						
Assess automation of alarming systems						
Integration deployment and testing						
Documentation	24 hrs	32 hrs				
Develop automatic job management framework			8 hrs	40 hrs	32 hrs	

	Nov 18, '07	Nov 25, '07	Dec 2, '07	Dec 9, '07	Dec 16, '07	Dec 23, '0
Automatic analysis of test results					8 hrs	
Integrate with alarming system						
Parag Mhashilkar	26 hrs	72 hrs	48 hrs	50 hrs	34 hrs	
Store output from any stage: Describe suitable test of feature				10 hrs		
D0repro tools adaptation: Evaluate impact on SamGrid and/or D0runjob						
D0repro tools adaptation: Use generic runjob interfaces in Samgrid for data processing App	2 hrs					
Generalization of Job Types according to I/O Characteristics		32 hrs				
Resolve how to add production paths in future: Document			40 hrs			
Start Prod at Stage 2: SamGrid notification=all bug fix						
New VDT: software adaptation and deployment						
Developers install and test candidate fwd node (by Fri Oct 26)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Developers install and test samgrid-like node (by Fri Nov 2)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Define standard durable location machine configuration						
Developers install and test durable location node (by Fri Nov 23)						
Adjust current installation instructions						
Adjust current software to use standard location as default	8 hrs					
Auto-clean up SamGrid job queue (samgrid.fnal.gov)						
Auto-clean up OSG job queue (fwd nodes)						
Resolve: Globus gatekeeper does not properly cleanup gass caches	8 hrs					
Periodically clean up gram log files at fwd nodes and exec sites	8 hrs					
Clean up sandboxes and jim_tmp areas at fwd node		8 hrs				
Clean up non-rotated log files (eg. Tomcat)		16 hrs				
Automation of all gridmap file management (including condor_schedd)		16 hrs				
Add the deployment of scripts to installation instructions			8 hrs			
Determine goal level, requirements					8 hrs	
Determine existing querying performance					2 hrs	
Evaluate condor_quill, if determined to be necessary						
Improve algorithm for selection of OSG resources						
Investigate alternative (to UPD) deployment methods						
Simplify installation process with new method or with a UPD umbrella package						
Auto Mgmt XML DB: Procedure to remove old XML DB entries. recover FS space						
Auto Mgmt XML DB: Automate this or make part of maint. downtime procedures						
Auto Mgmt XML DB: Large DB performance degradation						
Auto Mgmt XML DB: Infrequent index corruption						
Fix Immortal Jobs: SamGrid development/integration						
Job State diagram with most common error state causes				40 hrs		
Augment Job States to be more meaningful to large customer					24 hrs	
Establish service level for optimal performance and implications on system config						
Adam Lyon				8 hrs		

	Nov 18, '07	Nov 25, '07	Dec 2, '07	Dec 9, '07	Dec 16, '07	Dec 23, '0
Operations Policies doc: Revised version						
Operations Policies doc: Final version						
Assess automation of maintenance operations				8 hrs		
Develop generic NGOP rules: alarm severity, paging/email notifications						
Mike Diesburg					40 hrs	
Fix d0srv065 storage issues						
Run D0 Primary Prod to verify storage fix						
Scale-up D0 Primary Prod to 200 nodes						
Open Science Enclave baseline security plan - implications on SamGrid, CAB						
Allow access by MD to dir/files on CAB owned by dzeropro (we suggest getting root access)						
JIM production release consistent with d0runjob v7-7-3 and higher					24 hrs	
Define conditions of challenge					8 hrs	
Service Challenge execution					8 hrs	
Establish service level for optimal performance and implications on system config						
Randolph Herber						
Understand SAM-Grid representation requirements: Ops part						
Automated administration of NGOP schema and config						
Joel Snow	16 hrs	8 hrs			16 hrs	
Store output from any stage: Production-level test					16 hrs	
D0repro tools adaptation: Production-level test	16 hrs	8 hrs				
Agreement on Component and Integration testing						
Evaluate and sign-off on test facilities and procedures						
Start Prod at Stage 2: Production-level re-test						
New VDT: Production-level test						
Fix Immortal Jobs: Production-level test						
Establish service level for optimal performance and implications on system config						
MC Request Submitter					24 hrs	
Store output from any stage: Create/submit requests to test feature					24 hrs	
Fix Immortal Jobs: Create/submit requests to test feature						
Peter Love	8 hrs					
D0repro tools adaptation: Evaluate impact on SamGrid and/or D0runjob						
D0repro tools adaptation: Adjust D0runjob to use request system	8 hrs					
Agreement on Component and Integration testing						
D0runjob sets up its own environment						
Evaluate and sign-off on test facilities and procedures						
Transfer output sandbox selection logic to Runjob						
Daniel Wicke	16 hrs					
D0repro tools adaptation: Second 50% implementation						
Agreement on Component and Integration testing						
Evaluate and sign-off on test facilities and procedures	16 hrs					
FEF Administrators		16 hrs				
Admins procure HW parts for all fwd nodes		1	1	1	1	

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REX ops re-installs on test machine Stop tmb upload to d0srv063; REX ops reinstalls durable location (Nov 26-27) Stop tmb upload to d0srv065, REX ops reinstalls durable location (Nov 28-29) Develop automatic job management framework Automatic analysis of test results Integrate with alarming system SamGrid Developers Agreement on Component and Integration testing Evaluate and sign-off on test facilities and procedures REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) External Resource Grid Production System workflow/dataflow diagram Grid Production System workflow/dataflow diagram: node roles, software, maintainers	REX ops installs software on production samgrid-like node	24 hrs					
Stop trib upload to d0srv063; REX ops reinstalls durable location (Nov 26-27) Stop trib upload to d0srv065; REX ops reinstalls durable location (Nov 28-29) Develop automatic job management framework Automatic analysis of test results Integrate with alarming system SamGrid Developers Agreement on Component and Integration testing Evaluate and sign-off on test facilities and procedures REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) External Resource Grid Production System workflow/dataflow diagram Grid Production System info on diagram: node roles, software, maintainers	Replace samgrid.fnal.gov (Dec 4 downtime, prefer Nov 6 downtime)			8 hrs			
Stop tmb upload to d0srv065; REX ops reinstalls durable location (Nov 28-29) Develop automatic job management framework Automatic analysis of test results Integrate with alarming system SamGrid Developers Agreement on Component and Integration testing Evaluate and sign-off on test facilities and procedures REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX	REX ops re-installs on test machine	16 hrs					
Develop automatic job management framework Automatic analysis of test results Integrate with alarming system SamGrid Developers Agreement on Component and Integration testing Evaluate and sign-off on test facilities and procedures REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) 20 hrs 20 hrs 20 hrs Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) Topi	Stop tmb upload to d0srv063; REX ops reinstalls durable location (Nov 26-27)		16 hrs				
Automatic analysis of test results Integrate with alarming system SamGrid Developers Agreement on Component and Integration testing Evaluate and sign-off on test facilities and procedures REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) 20 hrs Topical Operations Training and Docs as requested by REX ops (Level of Effort) 20 hrs	Stop tmb upload to d0srv065; REX ops reinstalls durable location (Nov 28-29)		16 hrs				
Integrate with alarming system SamGrid Developers Agreement on Component and Integration testing Evaluate and sign-off on test facilities and procedures REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) 20 hrs 20 hrs 20 hrs 20 hrs 20 hrs External Resource Grid Production System workflow/dataflow diagram Grid Production System info on diagram: node roles, software, maintainers	Develop automatic job management framework			8 hrs	40 hrs	32 hrs	
SamGrid Developers Agreement on Component and Integration testing Evaluate and sign-off on test facilities and procedures REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) 20 hrs 20 hrs 20 hrs 20 hrs External Resource Grid Production System workflow/dataflow diagram Grid Production System info on diagram: node roles, software, maintainers	Automatic analysis of test results					8 hrs	
Agreement on Component and Integration testing Evaluate and sign-off on test facilities and procedures REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) 20 hrs 20 hrs 20 hrs 20 hrs 20 hrs 20 hrs 6rid Production System workflow/dataflow diagram Grid Production System info on diagram: node roles, software, maintainers	Integrate with alarming system						
Evaluate and sign-off on test facilities and procedures REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) 20 hrs 67 d Production System workflow/dataflow diagram Grid Production System info on diagram: node roles, software, maintainers	SamGrid Developers		40 hrs	40 hrs	40 hrs		
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) 20 hrs 20 hrs 20 hrs 20 hrs 20 hrs 20 hrs 67 d Production System workflow/dataflow diagram Grid Production System info on diagram: node roles, software, maintainers	Agreement on Component and Integration testing						
Topical Operations Training and Docs as requested by REX ops (Level of Effort) REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) External Resource Grid Production System workflow/dataflow diagram Grid Production System info on diagram: node roles, software, maintainers	Evaluate and sign-off on test facilities and procedures						
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort) Topical Operations Training and Docs as requested by REX ops (Level of Effort) External Resource Grid Production System workflow/dataflow diagram Grid Production System info on diagram: node roles, software, maintainers	REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)						
Topical Operations Training and Docs as requested by REX ops (Level of Effort) External Resource Grid Production System workflow/dataflow diagram Grid Production System info on diagram: node roles, software, maintainers	Topical Operations Training and Docs as requested by REX ops (Level of Effort)						
External Resource Grid Production System workflow/dataflow diagram Grid Production System info on diagram: node roles, software, maintainers	, , , , , , , , , , , , , , , , , , , ,		20 hrs	20 hrs	20 hrs		
Grid Production System workflow/dataflow diagram Grid Production System info on diagram: node roles, software, maintainers	Topical Operations Training and Docs as requested by REX ops (Level of Effort)		20 hrs	20 hrs	20 hrs		
Grid Production System info on diagram: node roles, software, maintainers	External Resource						
	Grid Production System workflow/dataflow diagram						
CAB web monitoring changes requested by MD,JS	Grid Production System info on diagram: node roles, software, maintainers						
	CAB web monitoring changes requested by MD,JS						

	Nov 18, '07	Nov 25, '07	Dec 2, '07	Dec 9, '07	Dec 16, '07	Dec 23, '0
Improve job monitoring, include trend plots						

	Dec 23, '07	Dec 30, '07	Jan 6, '08	Jan 13, '08	Jan 20, '08	Jan 27, '0
Amber Boehnlein						
Resolve how to add production paths in future: D0 Approval						
Operations Policies doc: Approve - CD, D0						
Baseline Plan: Approval by ABS, CD						
Project Close-out Report Approval: ABS, CD						
Rob Kennedy			6 hrs	6 hrs	4.8 hrs	
High-level Architecture Document: Approval - VW						
Operations Policies doc: Approve - CD, D0						
Develop WBS for implementing this capability						
Project Definition Document: Draft w/o WBS/Schedule						
Project Execution Plan: Draft w/o WBS/Schedule						
Baseline Plan: Integrate components, feed-back, update draft v1.1						
Baseline Plan: Approval by ABS, CD						
Execution Phase (Level of Effort = 15%)			6 hrs	6 hrs	4.8 hrs	
Project Close-out Meeting						
Project Close-out Report						
Project Close-out Report Approval: ABS, CD						
Archive project artifacts						
Gabriele Garzoglio			8 hrs	32 hrs		
Testing responsibilities, procedures proposal						
Organize activities to prepare for LCG fwd node downtime						
Open Science Enclave baseline security plan - implications on SamGrid, CAB						
Use ResS (more flexible than use of roles)						
Establish service level for optimal performance and implications on system config			8 hrs	32 hrs		
Evaluate request, determine best course of action						
Andrew Baranovski	24 hrs	24 hrs	40 hrs	24 hrs		
Tool to setup worker node environment						
Simplify maintenance of automatic clean-up scripts for durable locations						
Make output sandbox space management more robust						
Provide tools (to MD) for accessing old logfiles						
Develop converter between SamGrid config and next-gen cron						
Generate NGOP agents from set of monitoring scripts and config						
Store duplicate configuration of fwd node						
Accept existing configuration of fwd node						
Dispatch list of monitoring agents periodically, collect statuses						
Create distributable UPD package						
Develop generic scripts for Gridftp and Fcp monitoring						
Forwarding Node: Gridftp, Fcp, Jim_advertise, XML db, Sandbox, optional scheduling component						
Data Nodes: Stager, Durable location, caches, Gridftp, Fcp						
Assess automation of alarming systems						
Integration deployment and testing						
Documentation						
Develop automatic job management framework						

	Dec 23, '07	Dec 30, '07	Jan 6, '08	Jan 13, '08	Jan 20, '08	Jan 27, '0
Automatic analysis of test results	24 hrs	24 hrs	24 hrs			
Integrate with alarming system			16 hrs	24 hrs		
Parag Mhashilkar	6 hrs	24 hrs	48 hrs	72 hrs	32 hrs	
Store output from any stage: Describe suitable test of feature						
D0repro tools adaptation: Evaluate impact on SamGrid and/or D0runjob						
D0repro tools adaptation: Use generic runjob interfaces in Samgrid for data processing App						
Generalization of Job Types according to I/O Characteristics						
Resolve how to add production paths in future: Document						
Start Prod at Stage 2: SamGrid notification=all bug fix				24 hrs	32 hrs	
New VDT: software adaptation and deployment						
Developers install and test candidate fwd node (by Fri Oct 26)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Developers install and test samgrid-like node (by Fri Nov 2)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Define standard durable location machine configuration						
Developers install and test durable location node (by Fri Nov 23)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Auto-clean up SamGrid job queue (samgrid.fnal.gov)						
Auto-clean up OSG job queue (fwd nodes)						
Resolve: Globus gatekeeper does not properly cleanup gass caches						
Periodically clean up gram log files at fwd nodes and exec sites						
Clean up sandboxes and jim_tmp areas at fwd node						
Clean up non-rotated log files (eg. Tomcat)						
Automation of all gridmap file management (including condor_schedd)						
Add the deployment of scripts to installation instructions						
Determine goal level, requirements						
Determine existing querying performance	6 hrs					
Evaluate condor_quill, if determined to be necessary		24 hrs	16 hrs			
Improve algorithm for selection of OSG resources			24 hrs	16 hrs		
Investigate alternative (to UPD) deployment methods						
Simplify installation process with new method or with a UPD umbrella package						
Auto Mgmt XML DB: Procedure to remove old XML DB entries. recover FS space						
Auto Mgmt XML DB: Automate this or make part of maint. downtime procedures						
Auto Mgmt XML DB: Large DB performance degradation						
Auto Mgmt XML DB: Infrequent index corruption						
Fix Immortal Jobs: SamGrid development/integration						
Job State diagram with most common error state causes						
Augment Job States to be more meaningful to large customer						
Establish service level for optimal performance and implications on system config			8 hrs	32 hrs		
Adam Lyon						

Operations Policies doc: Revised version					
Operations Policies doc: Final version					
Assess automation of maintenance operations					
Develop generic NGOP rules: alarm severity, paging/email notifications					
Mike Diesburg	24 hrs	24 hrs	8 hrs	32 hrs	
Fix d0srv065 storage issues					
Run D0 Primary Prod to verify storage fix					
Scale-up D0 Primary Prod to 200 nodes					
Open Science Enclave baseline security plan - implications on SamGrid, CAB					
Allow access by MD to dir/files on CAB owned by dzeropro (we suggest getting root access)					
JIM production release consistent with d0runjob v7-7-3 and higher					
Define conditions of challenge					
Service Challenge execution	24 hrs	24 hrs			
Establish service level for optimal performance and implications on system config			8 hrs	32 hrs	
Randolph Herber					
Understand SAM-Grid representation requirements: Ops part					
Automated administration of NGOP schema and config					
Joel Snow	8 hrs		8 hrs	32 hrs	
Store output from any stage: Production-level test	8 hrs				
D0repro tools adaptation: Production-level test					
Agreement on Component and Integration testing					
Evaluate and sign-off on test facilities and procedures					
Start Prod at Stage 2: Production-level re-test					
New VDT: Production-level test					
Fix Immortal Jobs: Production-level test					
Establish service level for optimal performance and implications on system config			8 hrs	32 hrs	
MC Request Submitter					
Store output from any stage: Create/submit requests to test feature					
Fix Immortal Jobs: Create/submit requests to test feature					
Peter Love					
D0repro tools adaptation: Evaluate impact on SamGrid and/or D0runjob					
D0repro tools adaptation: Adjust D0runjob to use request system					
Agreement on Component and Integration testing					
D0runjob sets up its own environment					
Evaluate and sign-off on test facilities and procedures					
Transfer output sandbox selection logic to Runjob					
Daniel Wicke					
D0repro tools adaptation: Second 50% implementation					
Agreement on Component and Integration testing					
Evaluate and sign-off on test facilities and procedures					
FEF Administrators					
Admins procure HW parts for all fwd nodes					
Admins configure candidate fwd node (by Oct 22)					

	Dec 23, '07	Dec 30, '07	Jan 6, '08	Jan 13, '08	Jan 20, '08	Jan 27, '0
Admins and REX ops configure production fwd node	,	,	,			
Admins and REX ops configure production fwd node						
Admins and REX ops configure production fwd node						
Admins procure HW parts for samgrid-like node (job queuing, broker, web server)						
Admins configure test instance of samgrid-like node						
Admins configure production samgrid-like node						
Admins procure and configure durable location test node						
Admins configure test instance of durable location node (by Fri Nov 9)						
Open Science Enclave baseline security plan - implications on SamGrid, CAB						
REX Operators	24 hrs	24 hrs	40 hrs	24 hrs		
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)						
Topical Operations Training and Docs as requested by REX ops (Level of Effort)						
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)						
Topical Operations Training and Docs as requested by REX ops (Level of Effort)						
REX ops re-installs on candidate machine						
Switch candidate machine and d0srv047 (fwd + station) (Nov 6)						
REX ops drains and take production fwd node offline						
REX ops installs software on production fwd node (d0srv66)						
Put fwd node back into system d0srv66 (Nov 13)						
REX ops drains and take production fwd node offline						
REX ops installs software on production fwd node (d0srv15)						
Switch candidate machine and d0srv15 (1 fwd node downtime) (Nov 15)						
REX ops installs software on test fwd node (d0srv47)						
Reinstall LCG fwd node (Dec 4 downtime)						
REX ops installs software on production samgrid-like node						
Replace samgrid.fnal.gov (Dec 4 downtime, prefer Nov 6 downtime)						
REX ops re-installs on test machine						
Stop tmb upload to d0srv063; REX ops reinstalls durable location (Nov 26-27)						
Stop tmb upload to d0srv065; REX ops reinstalls durable location (Nov 28-29)						
Develop automatic job management framework						
Automatic analysis of test results	24 hrs	24 hrs	24 hrs			
Integrate with alarming system			16 hrs	24 hrs		
SamGrid Developers						
Agreement on Component and Integration testing						
Evaluate and sign-off on test facilities and procedures						
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)						
Topical Operations Training and Docs as requested by REX ops (Level of Effort)						
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)						
Topical Operations Training and Docs as requested by REX ops (Level of Effort)						
External Resource						
Grid Production System workflow/dataflow diagram						
Grid Production System info on diagram: node roles, software, maintainers						
CAB web monitoring changes requested by MD,JS						

	Dec 23, '07	Dec 30, '07	Jan 6, '08	Jan 13, '08	Jan 20, '08	Jan 27, '0
Improve job monitoring, include trend plots						

	Jan 27, '08	Feb 3, '08	Feb 10, '08	Feb 17, '08	Feb 24, '08	Mar 2, '08
Amber Boehnlein		12 hrs				
Resolve how to add production paths in future: D0 Approval						
Operations Policies doc: Approve - CD, D0						
Baseline Plan: Approval by ABS, CD						
Project Close-out Report Approval: ABS, CD		12 hrs				
Rob Kennedy	12.8 hrs	40 hrs	8 hrs			
High-level Architecture Document: Approval - VW						
Operations Policies doc: Approve - CD, D0						
Develop WBS for implementing this capability						
Project Definition Document: Draft w/o WBS/Schedule						
Project Execution Plan: Draft w/o WBS/Schedule						
Baseline Plan: Integrate components, feed-back, update draft v1.1						
Baseline Plan: Approval by ABS, CD						
Execution Phase (Level of Effort = 15%)	4.8 hrs					
Project Close-out Meeting	8 hrs					
Project Close-out Report		16 hrs				
Project Close-out Report Approval: ABS, CD		24 hrs				
Archive project artifacts			8 hrs			
Gabriele Garzoglio						
Testing responsibilities, procedures proposal						
Organize activities to prepare for LCG fwd node downtime						
Open Science Enclave baseline security plan - implications on SamGrid, CAB						
Use ResS (more flexible than use of roles)						
Establish service level for optimal performance and implications on system config						
Evaluate request, determine best course of action						
Andrew Baranovski						
Tool to setup worker node environment						
Simplify maintenance of automatic clean-up scripts for durable locations						
Make output sandbox space management more robust						
Provide tools (to MD) for accessing old logfiles						
Develop converter between SamGrid config and next-gen cron						
Generate NGOP agents from set of monitoring scripts and config						
Store duplicate configuration of fwd node						
Accept existing configuration of fwd node						
Dispatch list of monitoring agents periodically, collect statuses						
Create distributable UPD package						
Develop generic scripts for Gridftp and Fcp monitoring						
Forwarding Node: Gridftp, Fcp, Jim_advertise, XML db, Sandbox, optional scheduling component						
Data Nodes: Stager, Durable location, caches, Gridftp, Fcp						
Assess automation of alarming systems						
Integration deployment and testing						
Documentation						
Develop automatic job management framework						

Automatic analysis of test moute	Jan 27, '08	Feb 3, '08	Feb 10, '08	Feb 17, '08	Feb 24, '08	Mar 2, '08
Automatic analysis of test results						
Integrate with alarming system						
Parag Mhashilkar	40 hrs	40 hrs	40 hrs	40 hrs	40 hrs	
Store output from any stage: Describe suitable test of feature						
D0repro tools adaptation: Evaluate impact on SamGrid and/or D0runjob						
D0repro tools adaptation: Use generic runjob interfaces in Samgrid for data processing App						
Generalization of Job Types according to I/O Characteristics						
Resolve how to add production paths in future: Document						
Start Prod at Stage 2: SamGrid notification=all bug fix	8 hrs					
New VDT: software adaptation and deployment						
Developers install and test candidate fwd node (by Fri Oct 26)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Developers install and test samgrid-like node (by Fri Nov 2)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Define standard durable location machine configuration						
Developers install and test durable location node (by Fri Nov 23)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Auto-clean up SamGrid job queue (samgrid.fnal.gov)						
Auto-clean up OSG job queue (fwd nodes)						
Resolve: Globus gatekeeper does not properly cleanup gass caches						
Periodically clean up gram log files at fwd nodes and exec sites						
Clean up sandboxes and jim_tmp areas at fwd node						
Clean up non-rotated log files (eg. Tomcat)						
Automation of all gridmap file management (including condor_schedd)						
Add the deployment of scripts to installation instructions						
Determine goal level, requirements						
Determine existing querying performance						
Evaluate condor_quill, if determined to be necessary						
Improve algorithm for selection of OSG resources						
Investigate alternative (to UPD) deployment methods	32 hrs	8 hrs				
Simplify installation process with new method or with a UPD umbrella package		32 hrs	40 hrs	40 hrs	8 hrs	
Auto Mgmt XML DB: Procedure to remove old XML DB entries. recover FS space					16 hrs	
Auto Mgmt XML DB: Automate this or make part of maint. downtime procedures					16 hrs	
Auto Mgmt XML DB: Large DB performance degradation						
Auto Mgmt XML DB: Infrequent index corruption						
Fix Immortal Jobs: SamGrid development/integration						
Job State diagram with most common error state causes						
Augment Job States to be more meaningful to large customer						
Establish service level for optimal performance and implications on system config						
Adam Lyon						

	Jan 27, '08	Feb 3, '08	Feb 10, '08	Feb 17, '08	Feb 24, '08	Mar 2, '08
Operations Policies doc: Revised version						
Operations Policies doc: Final version						
Assess automation of maintenance operations						
Develop generic NGOP rules: alarm severity, paging/email notifications						
Mike Diesburg						
Fix d0srv065 storage issues						
Run D0 Primary Prod to verify storage fix						
Scale-up D0 Primary Prod to 200 nodes						
Open Science Enclave baseline security plan - implications on SamGrid, CAB						
Allow access by MD to dir/files on CAB owned by dzeropro (we suggest getting root access)						
JIM production release consistent with d0runjob v7-7-3 and higher						
Define conditions of challenge						
Service Challenge execution						
Establish service level for optimal performance and implications on system config						
Randolph Herber						
Understand SAM-Grid representation requirements: Ops part						
Automated administration of NGOP schema and config						
Joel Snow	16 hrs					
Store output from any stage: Production-level test						
D0repro tools adaptation: Production-level test						
Agreement on Component and Integration testing						
Evaluate and sign-off on test facilities and procedures						
Start Prod at Stage 2: Production-level re-test	16 hrs					
New VDT: Production-level test						
Fix Immortal Jobs: Production-level test						
Establish service level for optimal performance and implications on system config						
MC Request Submitter						
Store output from any stage: Create/submit requests to test feature						
Fix Immortal Jobs: Create/submit requests to test feature						
Peter Love						
D0repro tools adaptation: Evaluate impact on SamGrid and/or D0runjob						
D0repro tools adaptation: Adjust D0runjob to use request system						
Agreement on Component and Integration testing						
D0runjob sets up its own environment						
Evaluate and sign-off on test facilities and procedures						
Transfer output sandbox selection logic to Runjob						
Daniel Wicke						
D0repro tools adaptation: Second 50% implementation						
Agreement on Component and Integration testing						
Evaluate and sign-off on test facilities and procedures						
FEF Administrators						
Admins procure HW parts for all fwd nodes						
Admins configure candidate fwd node (by Oct 22)						
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Admins and REX ops configure production fwd node Admins and REX ops configure production fwd node Admins and REX ops configure production fwd node Admins procure HW parts for samgrid-like node (job queuing, broker, web server) Admins configure test instance of samgrid-like node	
Admins and REX ops configure production fwd node Admins procure HW parts for samgrid-like node (job queuing, broker, web server) Admins configure test instance of samgrid-like node	
Admins procure HW parts for samgrid-like node (job queuing, broker, web server) Admins configure test instance of samgrid-like node	
Admins configure test instance of samgrid-like node	
Admins configure production samgrid-like node	
Admins procure and configure durable location test node	
Admins configure test instance of durable location node (by Fri Nov 9)	
Open Science Enclave baseline security plan - implications on SamGrid, CAB	
REX Operators	
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)	
Topical Operations Training and Docs as requested by REX ops (Level of Effort)	
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)	
Topical Operations Training and Docs as requested by REX ops (Level of Effort)	
REX ops re-installs on candidate machine	
Switch candidate machine and d0srv047 (fwd + station) (Nov 6)	
REX ops drains and take production fwd node offline	
REX ops installs software on production fwd node (d0srv66)	
Put fwd node back into system d0srv66 (Nov 13)	
REX ops drains and take production fwd node offline	
REX ops installs software on production fwd node (d0srv15)	
Switch candidate machine and d0srv15 (1 fwd node downtime) (Nov 15)	
REX ops installs software on test fwd node (d0srv47)	
Reinstall LCG fwd node (Dec 4 downtime)	
REX ops installs software on production samgrid-like node	
Replace samgrid.fnal.gov (Dec 4 downtime, prefer Nov 6 downtime)	
REX ops re-installs on test machine	
Stop tmb upload to d0srv063; REX ops reinstalls durable location (Nov 26-27)	
Stop tmb upload to d0srv065; REX ops reinstalls durable location (Nov 28-29)	
Develop automatic job management framework	
Automatic analysis of test results	
Integrate with alarming system	
SamGrid Developers	
Agreement on Component and Integration testing	
Evaluate and sign-off on test facilities and procedures	
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)	
Topical Operations Training and Docs as requested by REX ops (Level of Effort)	
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)	
Topical Operations Training and Docs as requested by REX ops (Level of Effort)	
External Resource	
Grid Production System workflow/dataflow diagram	
Grid Production System info on diagram: node roles, software, maintainers	
CAB web monitoring changes requested by MD,JS	

	Jan 27, '08	Feb 3, '08	Feb 10, '08	Feb 17, '08	Feb 24, '08	Mar 2, '08
Improve job monitoring, include trend plots						

	Mar 2, '08	Mar 9, '08	Mar 16, '08	Mar 23, '08	Mar 30, '08	Apr 6, '08
Amber Boehnlein						
Resolve how to add production paths in future: D0 Approval						
Operations Policies doc: Approve - CD, D0						
Baseline Plan: Approval by ABS, CD						
Project Close-out Report Approval: ABS, CD						
Rob Kennedy						
High-level Architecture Document: Approval - VW						
Operations Policies doc: Approve - CD, D0						
Develop WBS for implementing this capability						
Project Definition Document: Draft w/o WBS/Schedule						
Project Execution Plan: Draft w/o WBS/Schedule						
Baseline Plan: Integrate components, feed-back, update draft v1.1						
Baseline Plan: Approval by ABS, CD						
Execution Phase (Level of Effort = 15%)						
Project Close-out Meeting						
Project Close-out Report						
Project Close-out Report Approval: ABS, CD						
Archive project artifacts						
Gabriele Garzoglio						
Testing responsibilities, procedures proposal						
Organize activities to prepare for LCG fwd node downtime						
Open Science Enclave baseline security plan - implications on SamGrid, CAB						
Use ResS (more flexible than use of roles)						
Establish service level for optimal performance and implications on system config						
Evaluate request, determine best course of action						
Andrew Baranovski						
Tool to setup worker node environment						
Simplify maintenance of automatic clean-up scripts for durable locations						
Make output sandbox space management more robust						
Provide tools (to MD) for accessing old logfiles						
Develop converter between SamGrid config and next-gen cron						
Generate NGOP agents from set of monitoring scripts and config						
Store duplicate configuration of fwd node						
Accept existing configuration of fwd node						
Dispatch list of monitoring agents periodically, collect statuses						
Create distributable UPD package						
Develop generic scripts for Gridftp and Fcp monitoring						
Forwarding Node: Gridftp, Fcp, Jim_advertise, XML db, Sandbox, optional scheduling component						
Data Nodes: Stager, Durable location, caches, Gridftp, Fcp						
Assess automation of alarming systems						
Integration deployment and testing						
Documentation						
Develop automatic job management framework						

	Mar 2, '08	Mar 9, '08	Mar 16, '08	Mar 23, '08	Mar 30, '08	Apr 6, '08
Automatic analysis of test results						
Integrate with alarming system						
Parag Mhashilkar	40 hrs	40 hrs	40 hrs	24 hrs		
Store output from any stage: Describe suitable test of feature						
D0repro tools adaptation: Evaluate impact on SamGrid and/or D0runjob						
D0repro tools adaptation: Use generic runjob interfaces in Samgrid for data processing App						
Generalization of Job Types according to I/O Characteristics						
Resolve how to add production paths in future: Document						
Start Prod at Stage 2: SamGrid notification=all bug fix						
New VDT: software adaptation and deployment						
Developers install and test candidate fwd node (by Fri Oct 26)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Developers install and test samgrid-like node (by Fri Nov 2)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Define standard durable location machine configuration						
Developers install and test durable location node (by Fri Nov 23)						
Adjust current installation instructions						
Adjust current software to use standard location as default						
Auto-clean up SamGrid job queue (samgrid.fnal.gov)						
Auto-clean up OSG job queue (fwd nodes)						
Resolve: Globus gatekeeper does not properly cleanup gass caches						
Periodically clean up gram log files at fwd nodes and exec sites						
Clean up sandboxes and jim_tmp areas at fwd node						
Clean up non-rotated log files (eg. Tomcat)						
Automation of all gridmap file management (including condor_schedd)						
Add the deployment of scripts to installation instructions						
Determine goal level, requirements						
Determine existing querying performance						
Evaluate condor_quill, if determined to be necessary						
Improve algorithm for selection of OSG resources						
Investigate alternative (to UPD) deployment methods						
Simplify installation process with new method or with a UPD umbrella package						
Auto Mgmt XML DB: Procedure to remove old XML DB entries. recover FS space						
Auto Mgmt XML DB: Automate this or make part of maint. downtime procedures	8 hrs					
Auto Mgmt XML DB: Large DB performance degradation	32 hrs	16 hrs				
Auto Mgmt XML DB: Infrequent index corruption		24 hrs	24 hrs			
Fix Immortal Jobs: SamGrid development/integration			16 hrs	24 hrs		
Job State diagram with most common error state causes						
Augment Job States to be more meaningful to large customer						
Establish service level for optimal performance and implications on system config						
Adam Lyon						

	Mar 2, '08	Mar 9, '08	Mar 16, '08	Mar 23, '08	Mar 30, '08	Apr 6, '08
Operations Policies doc: Revised version						
Operations Policies doc: Final version						
Assess automation of maintenance operations						
Develop generic NGOP rules: alarm severity, paging/email notifications						
Mike Diesburg						
Fix d0srv065 storage issues						
Run D0 Primary Prod to verify storage fix						
Scale-up D0 Primary Prod to 200 nodes						
Open Science Enclave baseline security plan - implications on SamGrid, CAB						
Allow access by MD to dir/files on CAB owned by dzeropro (we suggest getting root access)						
JIM production release consistent with d0runjob v7-7-3 and higher						
Define conditions of challenge						
Service Challenge execution						
Establish service level for optimal performance and implications on system config						
Randolph Herber						
Understand SAM-Grid representation requirements: Ops part						
Automated administration of NGOP schema and config						
Joel Snow					16 hrs	
Store output from any stage: Production-level test						
D0repro tools adaptation: Production-level test						
Agreement on Component and Integration testing						
Evaluate and sign-off on test facilities and procedures						
Start Prod at Stage 2: Production-level re-test						
New VDT: Production-level test						
Fix Immortal Jobs: Production-level test					16 hrs	
Establish service level for optimal performance and implications on system config						
MC Request Submitter				16 hrs		
Store output from any stage: Create/submit requests to test feature						
Fix Immortal Jobs: Create/submit requests to test feature				16 hrs		
Peter Love						
D0repro tools adaptation: Evaluate impact on SamGrid and/or D0runjob						
D0repro tools adaptation: Adjust D0runjob to use request system						
Agreement on Component and Integration testing						
D0runjob sets up its own environment						
Evaluate and sign-off on test facilities and procedures						
Transfer output sandbox selection logic to Runjob						
Daniel Wicke						
D0repro tools adaptation: Second 50% implementation						
Agreement on Component and Integration testing						
Evaluate and sign-off on test facilities and procedures						
FEF Administrators						
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Admins procure HW parts for all fwd nodes						

	Mar 2, '08	Mar 9, '08	Mar 16, '08	Mar 23, '08	Mar 30, '08	Apr 6, '08
Admins and REX ops configure production fwd node			,			
Admins and REX ops configure production fwd node						
Admins and REX ops configure production fwd node						
Admins procure HW parts for samgrid-like node (job queuing, broker, web server)						
Admins configure test instance of samgrid-like node						
Admins configure production samgrid-like node						
Admins procure and configure durable location test node						
Admins configure test instance of durable location node (by Fri Nov 9)						
Open Science Enclave baseline security plan - implications on SamGrid, CAB						
REX Operators						
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)						
Topical Operations Training and Docs as requested by REX ops (Level of Effort)						
REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)						
Topical Operations Training and Docs as requested by REX ops (Level of Effort)						
REX ops re-installs on candidate machine						
Switch candidate machine and d0srv047 (fwd + station) (Nov 6)						
REX ops drains and take production fwd node offline						
REX ops installs software on production fwd node (d0srv66)						
Put fwd node back into system d0srv66 (Nov 13)						
REX ops drains and take production fwd node offline						
REX ops installs software on production fwd node (d0srv15)						
Switch candidate machine and d0srv15 (1 fwd node downtime) (Nov 15)						
REX ops installs software on test fwd node (d0srv47)						
Reinstall LCG fwd node (Dec 4 downtime)						
REX ops installs software on production samgrid-like node						
Replace samgrid.fnal.gov (Dec 4 downtime, prefer Nov 6 downtime)						
REX ops re-installs on test machine						
Stop tmb upload to d0srv063; REX ops reinstalls durable location (Nov 26-27)						
Stop tmb upload to d0srv065; REX ops reinstalls durable location (Nov 28-29)						
Develop automatic job management framework						
Automatic analysis of test results						
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Grid Production System info on diagram: node roles, software, maintainers						
CAB web monitoring changes requested by MD,JS						
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	Mar 2, '08	Mar 9, '08	Mar 16, '08	Mar 23, '08	Mar 30, '08	Apr 6, '08
Improve job monitoring, include trend plots						